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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/615,038	07/08/2003	Young-Soo Kim	29926/39505	3909
4743 7	590 04/13/2005		EXAMINER	
MARSHALL 6300 SEARS T	, GERSTEIN & BOR OWER	SMITH, BRADLEY		
233 S. WACKER DRIVE			ART UNIT	PAPER NUMBER
CHICAGO, IL	60606		2891	_

DATE MAILED: 04/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

				— H·F		
		Application No.	Applicant(s)	,_		
Office Astina Comme		10/615,038	KIM, YOUNG-SOO			
	Office Action Summary	Examiner	Art Unit			
		Bradley K. Smith	2891			
Period fe	The MAILING DATE of this communication reply	on appears on the cover sheet w	ith the correspondence address			
THE - Exte after - If the - If NO - Failt Any	HORTENED STATUTORY PERIOD FOR F MAILING DATE OF THIS COMMUNICAT ensions of time may be available under the provisions of 37 C r SIX (6) MONTHS from the mailing date of this communicati e period for reply specified above is less than thirty (30) days o period for reply is specified above, the maximum statutory ure to reply within the set or extended period for reply will, by reply received by the Office later than three months after the ned patent term adjustment. See 37 CFR 1.704(b).	ION.  FR 1.136(a). In no event, however, may a join.  s, a reply within the statutory minimum of thir period will apply and will expire SIX (6) MON a statute, cause the application to become Al	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communic BANDONED (35 U.S.C. § 133).	cation.		
Status		•				
1)[\inf	Responsive to communication(s) filed on	09 February 2005.				
2a)□		This action is non-final.				
3)□	Since this application is in condition for a	•	ters, prosecution as to the ment	ts is		
·	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposit	tion of Claims					
5) 6) 7)	Claim(s) 1-9 is/are pending in the applica 4a) Of the above claim(s) is/are with Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) 1-9 are subject to restriction and	thdrawn from consideration.				
Applicat	ion Papers					
9)[	The specification is objected to by the Exa	aminer.				
10)[	The drawing(s) filed on is/are: a)	accepted or b) objected to	by the Examiner.			
	Applicant may not request that any objection t	to the drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).			
11)	Replacement drawing sheet(s) including the contract the oath or declaration is objected to by the oath or declaration is objected to by the oath or declaration is objected to be the oath of the oath or declaration is objected to be the oath of the oath					
	under 35 U.S.C. § 119	ne Examiner. Note the attached	JOINGE ACTION OF TOTAL PTO-152	۷.		
_	•					
а)	Acknowledgment is made of a claim for fo  All b) Some * c) None of:  1. Certified copies of the priority docu  2. Certified copies of the priority docu  3. Copies of the certified copies of the application from the International B  See the attached detailed Office action for	ments have been received. ments have been received in A e priority documents have been sureau (PCT Rule 17.2(a)).	pplication No received in this National Stage	)		
Attachmen	ot(s) te of References Cited (PTO-892)	Λ\	Summery (PTO 442)			
	e of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-94		Summary (PTO-413) s)/Mail Date			
	mation Disclosure Statement(s) (PTO-1449 or PTO/S or No(s)/Mail Date	5B/08) 5) Notice of Ii 6) Other:	nformal Patent Application (PTO-152)			

## **DETAILED ACTION**

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## Election/Restrictions

1. This application contains claims directed to the following patentably distinct species of the claimed invention:

Species 1 nitriding a surface. (suggested claims 1, 2, 7, and 8)

Species 2 controlling the TiCl<sub>4</sub> flow rate or feeding time ( suggested claims 3-6, and 9)

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claims are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record

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showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bradley K. Smith whose telephone number is (571) 272-1884. The examiner can normally be reached on 10-6 Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bill Baumeister can be reached on (571) 272-1722. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Primary Examiner Art Unit 2891